



STIC Search Report

EIC 2800

STIC Database Tracking Number 136295

TO: R. A. Smith
Location: JEF-6D30
11/8/2004
AU 2859
Case Serial No. : 10/646,951

[Signature]
11/24/04

From: Jeff Harrison
Location: STIC-EIC2800
JEF-4B68
Phone: 22511

Email: harrison, jeff

Search Notes

Dear Examiner Smith,

Re: Siding installation tool which grips side edges of siding

Attached are edited results from subject-searching in the patent and nonpatent literature.

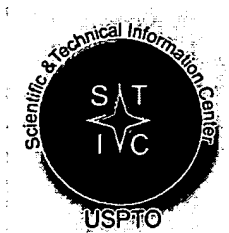
Definitely see the tagged items.
I suggest that you also browse the entire stack of results.

If you'd like additional searching or explanation, let me know.

Respectfully,
Jeff

[Signature]

Jeff Harrison
Team Leader, STIC-EIC2800
JEF-4B68, 571-272-2511



STIC Search Results Feedback Form

EIC 2800

Questions about the scope or the results of the search? Contact *the EIC searcher or contact:*

Jeff Harrison, EIC 2800 Team Leader
571-272-2511, JEF 4B68

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 2810

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC2800, CP4-9C18



136295

SEARCH REQUEST FORM Scientific and Technical Information Center • EIC2800
Rev. 3/15/2004 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEP-4B68, 272-2511.

Date 10/27/04 Serial # 10/646951 Priority Application Date 5 June 03
Your Name R. A. Smith Examiner # 75796
AU 2859 Phone 571-272-2251 Room 6D30
In what format would you like your results? Paper is the default. PAPER DISK EMAIL

If submitting more than one search, please prioritize in order of need.

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?
Circle: USPT DWPI EPO Abs JPO Abs IBM TDB
Other: _____

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements. DE 4442367C1

What types of references would you like? Please checkmark:
Primary Refs ☒ Nonpatent Literature ☒ Other any thing relevant
Secondary Refs ☒ Foreign Patents ☒
Teaching Refs ☒

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

See attached fig 4A + 4B. + claim 11

Most tools for spacing of hanging siding grab the upper + bottom edges of the siding. US 3,490,152 shows the normal way tools of this nature work.

This tool grabs the side edges of the siding + claim 11 is so broad am looking for art to apply.

Staff Use Only	Type of Search	Vendors
Searcher: <u>HARRISON</u>	Structure (#) _____	STN _____
Searcher Phone: <u>22511</u>	Bibliographic <input checked="" type="checkbox"/>	Dialog <input checked="" type="checkbox"/>
Searcher Location: STIC-EIC2800, JEP-4B68	Litigation _____	Questel/Orbit _____
Date Searcher Picked Up: <u>11-8-04</u>	Fulltext _____	Lexis-Nexis _____
Date Completed: <u>11-8-04</u>	Patent Family _____	WWW/Internet <input checked="" type="checkbox"/>
Searcher Prep/Rev Time: <u>90</u> <u>75</u>	Other _____	Other <u>East Foreigns</u>

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File 342:Derwent Patents Citation Indx 1978-04/200469
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Set	Items	Description
S1	1	PN=(DE 4442367 OR US 3490152)
S2	7	CT=(DE 4442367 OR US 3490152)
S3	1	CG=(DE 4442367 OR US 3490152)
S4	9	S1:S3
S5	26	S5:S6
S6	32	S1:S5
S7	0	S6 AND RF=TOOL??????
S8	32	S6

? map pn temp

4 Select Statement(s), 37 Search Term(s)
Serial#TD274

? b 350 347 344 371 348 349;ex

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File 350:Derwent WPIX 1963-2004/UD,UM &UP=200471
File 347:JAPIO Nov 1976-2004/Jul(Updated 041102)
File 344:Chinese Patents Abs Aug 1985-2004/May
File 371:French Patents 1961-2002/BOPI 200209
File 348:EUROPEAN PATENTS 1978-2004/Oct W05
File 349:PCT FULLTEXT 1979-2002/UB=20041104,UT=20041028

Set	Items	Description
S1	34	S1:S3
S2	0	S1 AND SIDE(1W)SIDE
S3	0	S1 AND JUXTAPOS??????
S4	2	S1 AND GRIP??????
S5	1	S1 AND (BOTH OR EACH OR LEFT OR RIGHT) (W)SIDE? ?
S6	0	S1 AND (BOTH OR EACH OR LEFT OR RIGHT) (W)END? ?
S7	41218	(GRAB?????? OR HOLD?????) (2W) (SIDE OR SIDES OR END OR ENDS OR (LEFT OR RIGHT OR VERTICAL) (W)EDGE? ?)
S8	970913	(BOTH OR EACH OR LEFT OR RIGHT) (W) (SIDE? ? OR END? ?)
S9	111802	SIDE(1W)SIDE
S10	4597	JUXTAPOS????????(3N) (END OR ENDS OR SIDE OR SIDES OR SURFACES)
S11	34	S1
S12	34784	S12:S13
S13	12947	7AND8
S14	2627	7AND9
S15	155	7AND10
S16	35215	8AND9
S17	1662	8AND10
S18	656	9AND10
S19	4367	IC='G01D 21-00':IC='G01D 21-04'
S20	9865	IC='G01D-021':IC='G01D-021/75'
S21	2	S13:S18 AND S19:S20
S22	3	S5 OR S21
S23	3	S22 NOT S4
S24	168	PA=BOISE?
S25	6	S1:S23 AND S24
S26	6	S25 NOT (S22 OR S4)
S27	439	SIDING(3N) (EDGE? ? OR SIDE? ? OR END? ?)
S28	145	S1:S26 AND S27
S29	102	8AND28
S30	12	9AND28
S31	1	10AND28
S32	102	28AND29
S33	1	S31 NOT (S26 OR S22 OR S4)
S34	117	S28:S32 AND SIDING/TI,AB,CM
S35	9	S28:S32 AND TOOL/TI,AB,CM
S36	48	S28:S32 AND (INSTALL????????? OR HANG??????)/TI,AB,CM
S37	41	34AND36
S38	6	35AND37
S39	5	S38 NOT (S26 OR S22 OR S4 OR S33)
S40	214874	(SIDE OR SIDES OR LATERAL) (2W) (EDGE OR EDGES OR END OR ENDS)

(search history continued)

S41 173123 (EDGE OR EDGES OR END OR ENDS) (2W) (SIDE OR SIDES OR LATERAL)
 S42 1112518 S1:S39
 S43 19597 S9 AND S40:S41
 S44 992 S10 AND S40:S41
 S45 266 43AND44
 S46 638 S11 OR S21:S39
 S47 71 40AND46
 S48 39 41AND46
 S49 7 43AND47
 S50 0 44AND47
 S51 6 S49 NOT (S38 OR S26 OR S22 OR S4 OR S33)
 S52 2079 S11 OR S18 OR S15 OR S21:S39 OR S44:S51
 S53 42 S52 AND TOOL/TI
 S54 241 S52 AND SIDING/TI
 S55 54 S52 AND (HANGING OR HANG OR INSTALL OR INSTALLING OR INSTALLATION)/TI
 S56 20 53AND54
 S57 9 53AND55
 S58 27 54AND55
 S59 42 S56:S58
 S60 7 56AND57AND58
 S61 6 S60 NOT (S49 OR S38 OR S26 OR S22 OR S4 OR S33)
 S62 31 S59 NOT (S60 OR S49 OR S38 OR S26 OR S22 OR S4 OR S33)
 S63 18 S62 AND (EDGE? ?/TI,AB)
 S64 18 S62 AND (END? ?)/TI,AB
 S65 12 S62 AND (SIDE OR SIDES OR LATERAL)/TI,AB
 S66 0 S62 AND (JUXTAPOS??????????)/TI,AB
 S67 0 S62 AND (JUXTAPOS??????????)
 S68 27 S63:S65
 S69 9 S68 AND (HOLD?????? OR JIG???? OR GRASP???????? OR CHUCK?????? OR GRAB???????? OR GRIP???????? OR
 ENGAG??????)/TI,AB
 S70 352240 S40:S41
 S71 2 S68 AND S70
 S72 2 S71 NOT S69
 S73 395175 (SIDE OR SIDES OR LATERAL?? OR VERTICAL??) (2N) (END OR ENDS OR EDGE OR EDGES)
 S74 83428 (SIDE OR SIDES) (2N) (LATERAL?? OR VERTICAL??)
 S75 1125 S52 AND S73
 S76 275 S52 AND S74
 S77 223 75AND76
 S78 67 S75:S77 AND S53:S55
 S79 11 S69 OR S72
 S80 40 S79 OR (S60 OR S49 OR S38 OR S26 OR S22 OR S4 OR S33)
 S81 279 S77:S78 NOT S80
 S82 2 S59 AND S81
 S83 223 76AND77
 S84 31444 (S9 OR JUXTAPOS????????????????) AND S73:S74
 S85 897 S84 AND TOOL(3N) (SURFACE? ? OR SIDE? ? OR EDGE? ? OR END? ?)
 S86 42 S80 OR S82
 S87 897 S85 NOT S86
 S88 239 SIDE? ?(4N)SIDING
 S89 0 87AND88
 S90 5 S84 AND S88
 S91 2 S90 NOT S86
 S92 52 S87 AND (GAP?????? OR THICKNESS?????? OR FLUSH)/TI,AB
 S93 23 S92 AND (SIDE? ? OR LATERAL??)/TI,AB
 S94 23 S93 NOT (S86 OR S91)
 S95 8 S94 AND TOOL/TI,AB
 S96 0 S92 AND SIDING/TI,AB
 S97 1 S92 AND SIDING
 S98 1 S97 NOT S95
 S99 184 INSTALL?????(3N)SIDING
 S100 9136 INSTALL?????(3N)TOOL
 S101 43 TOOL(3N)SIDING
 S102 11 99AND100AND101
 S103 3 S102 NOT (S98 OR S95 OR S86 OR S91)
 S104 8698 IC=(G01D-021/00 OR E04D-015/00)
 S105 17 S104 AND SIDING/TI
 S106 210 S104 AND SIDES
 S107 1 105AND106
 S108 261 S104 AND ENDS/TI,AB
 S109 0 S108 AND SIDING/TI,AB
 S110 0 S108 AND SIDING

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Set	Items	Description
S1	71	CORNER????????(5N)SIDING
S2	27	S1 AND (SIDE OR SIDES OR ENDS OR END OR EDGE OR EDGES) (5N) - CORNER????????
S3	29	S1 AND (SIDE OR SIDES OR ENDS OR END OR EDGE OR EDGES) (5N) - SIDING
S4	27	S1 AND (SIDE OR SIDES OR ENDS OR END OR EDGE OR EDGES) (5N) - CORNER????????
S5	52	TOOL(5N)SIDING
S6	245	(INSTALL????? OR HANG????) (5N)SIDING
S7	15	2AND3AND4
S8	0	2AND3AND4AND5
S9	3	2AND3AND4AND6
S10	0	3AND4AND5AND6
S11	15	2AND3AND4
S12	0	2AND3AND5
S13	3	2AND3AND6
S14	0	2AND4AND5
S15	6	2AND4AND6
S16	0	2AND5AND6
S17	0	3AND4AND5
S18	3	3AND4AND6
S19	0	4AND5AND6
S20	52	S2:S5 AND S5
S21	7	S1:S20 AND END(1W)END
S22	0	S1:S5 AND S21
S23	25	S7:S19 OR S21
S24	0	S23 AND TOOL/TI,AB,CM

08nov04 14:29:01 User259284 Session D2955.3

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 File 613:PR Newswire 1999-2004/Nov 08
 File 621:Gale Group New Prod.Annou.(R) 1985-2004/Nov 08
 File 649:Gale Group Newswire ASAP(TM) 2004/Nov 01
 File 810:Business Wire 1986-1999/Feb 28
 File 813:PR Newswire 1987-1999/Apr 30
 File 9:Business & Industry(R) Jul/1994-2004/Nov 04
 File 16:Gale Group PROMT(R) 1990-2004/Nov 08
 File 47:Gale Group Magazine DB(TM) 1959-2004/Nov 08
 File 80:TGG Aerospace/Def.Mkts(R) 1986-2004/Nov 08
 File 93:TableBase(R) Sep 1997-2004/Oct W3
 File 111:TGG Natl.Newspaper Index(SM) 1979-2004/Nov 03
 File 112:URM Industry News 1998-2004/Jan 27
 File 116:Brands & Their Companies 2004/Sep
 File 141:Readers Guide 1983-2004/Sep
 File 148:Gale Group Trade & Industry DB 1976-2004/Nov 08
 File 149:TGG Health&Wellness DB(SM) 1976-2004/Oct W3
 File 160:Gale Group PROMT(R) 1972-1989
 File 177:Adv.& Agency Red Books:Advertisers 2004/Oct
 File 178:Adv.& Agency Red Books:Agencies 2004/Oct
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 File 198:Health Devices Alerts(R) 1977-2004/Oct W4
 File 211:Gale Group Newsearch(TM) 2004/Nov 08
 File 233:Internet & Personal Comp. Abs. 1981-2003/Sep
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 File 484:Periodical Abs Plustext 1986-2004/Oct W5
 File 535:Thomas Register Online(R) -2004/Q3
 File 571:Piers Exports(US Ports) 2004/Oct W5
 File 573:Piers Imports(US Ports) 2004/Oct W5
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 File 592:KOMPASS Asia/Pacific 2004/Jul
 File 593:KOMPASS Central/Eastern Europe 2004/Jul
 File 609:Bridge World Markets 2000-2001/Oct 01
 File 636:Gale Group Newsletter DB(TM) 1987-2004/Nov 08
 File 646:Consumer Reports 1982-2004/Oct
 File 647:CMP Computer Fulltext 1988-2004/Oct W5

Set	Items	Description
S1	37704	(HANG????? OR INSTALL??????) (6N) TOOL? ?
S2	187	TOOL? ?(6N)SIDING
S3	1361	(HANG????? OR INSTALL??????) (6N)SIDING
S4	24	1AND2AND3
S5	2	S4 AND CORNER?????(8N)SIDING
S6	2	RD S5 (unique items)
S7	22	S4 NOT S6
S8	11	RD S7 (unique items)
S9	3	SIDING()INSTALLATION()TOOL? ?
S10	2	RD S9 (unique items)
S11	27	1AND2
S12	57	1AND3
S13	36	2AND3
S14	72	S4 OR S11:S13
S15	0	S14 AND CORNER??(3N)SIDING
S16	3	S14 AND (GRASP?????? OR CLAMP?????? OR ENGAG?????? OR GRIP?????? OR GRAB??????) (4N)SIDING
S17	3	RD S16 (unique items)
S18	3	S17 NOT S10



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VALERIE WHITNEY - BUSINESS WRITER. News Journal. Daytona Beach, Fla.: Oct 31, 2004. p. 01.F
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- ☐ 2. **Fooled you; New simulated building materials are easy on the eyes, pocketbook**
Gregory J. Scott AIA. Intelligencer Journal. Lancaster, Pa.: Sep 10, 2004. p. 1
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- ☐ 3. **BABE RUTH BASEBALL BOUNCES BACK WITH NEW PRESIDENT, EAGER VOLUNTEERS; [FINAL Edition]**
Miguel Rodriguez. Buffalo News. Buffalo, N.Y.: Jul 18, 2004. p. NC.5
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- ☐ 4. **BANKING ON HABITAT; National City Bank closes local branches Wednesday to allow employees to work at Habitat for Humanity sites in Gary.; [ALL Edition]**
Ruth Ann Krause, Correspondent. The Post - Tribune. Gary, Ind.: Jun 17, 2004. p. E.1
[Full text](#) [Abstract](#)
-
- ☐ 5. **Engineer to analyze fire hazard at tank farm addition ** Lower Macungie company wants to carry propane, butane.; [FIFTH Edition]**
Randy Kraft Of The Morning Call. Morning Call. Allentown, Pa.: May 21, 2004. p. B.3
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- ☐ 6. **Chubb Offers Tips to Prevent Water Damage in Your Home; Identifying Past and Future Potential for Water Damage Is Important for Homeowners and Buyers**
Business Wire. New York: May 6, 2004. p. 1
[Full text](#) [Abstract](#)
-
- ☐ 7. **Installing Siding**
Merle Henkenius. Popular Mechanics. New York: May 2004. Vol. 181, Iss. 5; p. 140 (4 pages)
[Full text](#) [Abstract](#)
-
- ☐ 8. **When all else fails, shortcut will have to do; [All Edition]**
Mike Bailey. Journal Star. Peoria, Ill.: Jan 18, 2004. p. A.4
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- ☐ 1. **NEW BUSINESSES; [Five-star Edition]**
News Sentinel. Knoxville, Tenn.: Sep 12, 2004. p. C.9
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- ☐ 2. **Fremont Partners Sells Tapco International Corporation to Headwaters Incorporated**
Business Wire. New York: Sep 8, 2004. p. 1
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- ☐ 3. **Headwaters Incorporated Acquires Tapco Holdings, Inc.**
Business Wire. New York: Sep 8, 2004. p. 1
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- ☐ 4. **Friend of faux Man-made materials are the backbone of this custom-built home; [THREE STAR Edition]**
FRANCES INGRAHAM HEINS STAFF WRITER. Times Union. Albany, N.Y.: Jul 4, 2004. p. H.1
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-
- ☐ 5. **Updated shingle guide available**
Anonymous. RSI, Roofing, Siding, Insulation. Cleveland: Jul 2004. Vol. 81, Iss. 7; p. 14
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-
- ☐ 6. **Man-made siding boosts curb appeal, is less labor-intensive; [Chicago Final Edition]**
David Bradley, AP Weekly Features. Chicago Tribune. Chicago, Ill.: May 7, 2004. p. 20
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- ☐ 7. **The Market for Construction Fasteners**
Charles F Jacobs. American Fastener Journal. Powell: May/Jun 2004. Vol. 21, Iss. 3; p. 8 (3 pages)
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-
- ☐ 8. **Improve your roof details**
Anonymous. RSI, Roofing, Siding, Insulation. Cleveland: Oct 2003. Vol. 80, Iss. 10; p. 8
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-
- ☐ 9. **New tool available to avoid roofing mistakes**
Anonymous. RSI, Roofing, Siding, Insulation. Cleveland: Sep 2003. Vol. 80, Iss. 9; p. 16



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61. [Oriented strandboard under attack: Top producer and experts react, offer solutions.](#) By: Moreno, Elena Marcheso. Architectural Record, Oct95, Vol. 183 Issue 10, p21, 2p; (AN 9511060263)

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62. [Roofers get on the siding track.](#) By: Lefkowitz, Donald N.. RSI: Roofing, Siding, Insulation, Sep95, Vol. 72 Issue 9, p35, 3p, 2c; (AN 9510080550)

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65. [Choosing stone cladding for building facades.](#) By: Lewis, Michael D.. Stone World, Mar95, Vol. 12 Issue 3, p44, 9p, 4 diagrams; (AN 9510273096)

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66. [Siding & exterior finishes.](#) Professional Builder, Jan95, Vol. 59 Issue 1, p242, 3/4p, 7c; (AN 9502093900)

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67. [Shakertown--The perfect accent.](#) Architectural Record, Dec94, Vol. 182 Issue 12, p177, 1p, 4c; (AN 9501040599)

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68. [How to install clapboard siding.](#) By: Willson, Steven; Retseck, George. Popular Mechanics, Jul94, Vol. 171 Issue 7, p76, 4p, 17c; (AN 9407111662)

Add

69. [Super siding.](#) By: Berendsohn, Roy. Popular Mechanics, Jun94, Vol. 171 Issue 6, p68, 4p, 1 chart, 11c; (AN 9406102157)

Add

70. [Fiber-cement siding.](#) Building Design & Construction, Aug93, Vol. 34 Issue 8, p88, 1/9p; (AN 9311093562)

Add

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82/3,AB,K/2 (Item 2 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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COMPOSITE SIDING SYSTEM AND METHODS OF MANUFACTURING AND INSTALLING SAME

Patent Applicant/Assignee: ANDERSEN CORPORATION, 100 Fourth Avenue, Bayport, MN 55003-1096, US, US

Patent Applicant/Inventor: DALQUIST Kurt, 5079 Evergreen Trail, North Branch, MN 55056, US, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200255806 A1 20020718 (WO 0255806)

Priority Application: WO 2001US936 20010112

English Abstract

A siding unit and method of manufacture and installation are disclosed.

Each siding unit is a 2-part structure including a siding profile made of a thermoplastic-biofiber composite material and an upper flange made of a thermoplastic polymer. The upper flange is fastened to the siding profits.

CLAIM:

115. A method of installing siding, comprising:

(a) fastening a siding unit to a building substrate, each unit having:

(i) a siding profile made of a thennoplactic-biofiber composite material; and

(H) an upper Range fastened to the siding profile where

the upper Range is made of a thermoplastic polymer. 116. The method of

installing siding of claim 1 1 5, further including fastening

a building interface trim unit to the building substrate at a building

interface. 117. The method of installing siding of claim 1 1

6, wherein the building interface trim unit is made of a

thennoplactic-biofiber composite material. 118. The method of

installing siding of claim 117, wherein the building interface trim unit includes:

(a) an inner surface;

(b) an-outer surface;

(c) a first side edge; and

(d) a second side edge parallel to the first side

edge and having a serrated profile mating with an outer surface of

the siding profile. 119. The method of installing

siding of claim 11 5, filyther including butt-joining adjacent

siding units with means for butt-joining adjacent siding

units. 120. The method of installing siding of claim 1 1 9,

wherein the butt j oining adjacent siding units with means for

joining adj acent siding units includes fastening a spline sized

and configured to fit against an inner surface of the siding

profile to an inner surface of a first siding profile and an inner

surface of a second adjacent siding profile. 121. The method of

installing siding of claim 120, wherein the spline is made of

a thermoplastic polymer. . The method of installing siding of

claim 121, wherein the spline includes at least one ridge extending along

at least a portion of a length of the spline. 123. The method of

installing siding of claim 122, wherein the spline includes a

plurality of ridges vertically spaced and extending along at least a

portion of a length of the spline. 124. The method of installing

siding of claim 1 1 5, fffirther including engaging a second

siding unit siding profile with the upper flange of the

fastened siding unit. 125. The method of installing

siding of claim 124, further including aligning the second

siding unit siding profile with the fastened siding

unit siding profile. 126. The method of installing

siding of claim 125, finther including fastening the aligned second

siding unit to the building substrate. 127. The method of

installing siding of claim 115, wherein the fastening

includes hard nailing the siding unit to the building substrate.

128. The method of installing siding of claim 1 1 5, wherein

the fastening includes loose nailing the siding unit to the building substrate.

129. A building interface trim unit, comprising:

(a) a elongated body having:

(i) an inner face;

(ii) an outer face;

(iii) a first side edge and;

(iv) a second side edge parallel to the first side edge and having a serrated profile. .

The building interface trim unit of claim 129, wherein the building interface trim unit comprises 50 to 90 parts of...

51/3,AB,K/3 (Item 2 from file: 349)
 DIALOG(R) File 349:PCT FULLTEXT
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 00847952

**PREFABRICATED STRUCTURAL BUILDING MEMBERS USING HIGH STRENGTH LIGHT-WEIGHT
 FIBER ASH COMPOSITE MATERIAL AND METHOD OF MANUFACTURE THEREOF**

Patent Applicant/Assignee:

AEROCK INC, Unit Q128, 11021 - 122nd Lane N.E., Kirkland, WA 98033, US,
 Inventor(s):

FRAVAL Hanafi R, 12232 N.E. 112th Place, Kirkland, WA 98033, US,
 Patent and Priority Information (Country, Number, Date):

Patent: WO 200181267 A2-A3 20011101 (WO 0181267)

Priority Application: US 2000552849 20000420; US 2001838673 20010419

English Abstract

A prefabricated structural building panel is disclosed. The panel includes a first sheet having inner and outer planar surfaces. A plurality of structural ribs are disposed on the inner surface of the first sheet and are interconnected to form a geometric design having a plurality of chambers. The first sheet and the structural ribs are integrally formed as a single unit from a fiber and fly ash composite material.

Fulltext Availability:

Detailed Description

The panel of Fig. 1 1 illustrates a flange 34 incorporated along the **edge** of the **siding** 32 to allow for fixing of the siding panel to the building. The voids 38 is extruded into the material between the ribs 33 in...which are constructed from the preferred composite material as described in detail below. A pair of flanges 102 and 104 are disposed along the longitudinal **side edges** of the decking panel 95.

The fianges 102 and 104 are sized and shaped to permit a plurality of such paneis 95 to be laid next to each other **side to side** and interconnected at their adjacent flange portions. In this manner; a plurality of such decking panels 95 may be interconnected to create a single large...

...17. In this form of the invention, the panel 95 inciudes an upper panel portion 91 and a plurality of longitudinal ribs 98'. The longitudinal **side edges** 106, 108 of this particular embodiment each includes a pair of channeis 110, 112 separated by an elongated tongue member 114. The channels 110, 112...

Claim

... structural ribs are filled with said insulation.

22 The building unit as claimed in claim 18, wherein said unit inciudes web means disposed along opposed **side edges** thereof for interconnecting adjacently positioned building units.

51/3,AB,K/4 (Item 3 from file: 349)
 DIALOG(R) File 349:PCT FULLTEXT
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00847951

**HIGH STRENGTH LIGHT-WEIGHT FIBER ASH COMPOSITE MATERIAL FOR PREFABRICATED
 STRUCTURAL BUILDING MEMBERS**

Patent Applicant/Assignee:

AEROCK INC, Unit Q128, 11021 - 122nd Lane N.E., Kirkland, WA 98033, US,
 Inventor(s):

FRAVAL Hanafi R, 12232 N.E. 112th Place, Kirkland, WA 98033, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200181266 A2-A3 20011101 (WO 0181266)

Priority Application: US 2000552849 20000420; US 2001838673 20010419

English Abstract

In preferred form, the cement composite includes a mixture of a commercial grade fly ash having a high lime content and a dry flue-gas desulfurized fly ash. A prefabricated structural building panel is disclosed. The panel includes a first sheet having inner and outer planar surfaces. A plurality of structural ribs are disposed on the inner surface of the first sheet and are interconnected to form a geometric design having a plurality of chambers. The first sheet and the structural ribs are integrally formed as a single unit from a fiber and fly ash composite material.

Detailed Description

The panel of Fig. 1 1 illustrates a flange 34 incorporated along the **edge** of the **siding** 32 to allow for fixing of the siding panel to the building. The voids- 38 is extruded into the material between the ribs 33 in...which are constructed from the preferred composite material as described in detail below. A pair of flanges 102 and 104 are disposed along the longitudinal **side edges** of the decking panel 95.

The flanges 102 and 104 are sized and shaped to permit a plurality of such panels 95 to be laid next to each other **side** to **side** and interconnected at their adjacent flange portions. In this manner, a plurality of such decking panels 95 may be interconnected to create a single large...

...17. In this form of the invention, the panel 95 includes an upper panel portion 96' and a plurality of longitudinal ribs 98'. The longitudinal **side edges** 106, 108 of this particular embodiment each includes a pair of channels 110, 112 separated by an elongated tongue member 114. The channels 110, 112...

23/3,AB,K/2 (Item 1 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00827787

SIDING GAUGE TOOL

Patent Applicant/Inventor:

REMPE Steve, 1429 Indian Valley Road, Novato, CA 94947, US, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200161272 A1 20010823 (WO 0161272)

Priority Application: US 2000507472 20000217

English Abstract

A tool (10) for installation of building siding includes an elongate base portion (12), an arm portion (14) extending at a right angle thereto, and terminates in a flange portion (16) extending at a right angle from the arm (14). A clip member (18) is carried on the upper surface of the base (12), and extends toward the arm portion (14) to define a gap (22) therebetween. For use, one or more of the tools (10) are placed on the bottom edge of the piece of siding so that the siding is releasably captured in the gap (22). The piece of siding can then be placed at an appropriate position on a wall above a previously-installed piece of siding, so that the flange (16) rests on the upper edge of the previously installed piece. The installer may rest the piece of new siding, with the tool(s) in place, on the previously installed piece of siding, enabling the installer to temporarily nail the new piece in place. The tool(s) can then be removed from the new piece by twisting and pulling down on the handle portion.

Detailed Description

lap distance for siding installation. When used as a pair (one tool on **each side** of the siding piece), the device enables installation of a length of siding by one person* The device is attached to the free piece of...

51/3,AB,K/1 (Item 1 from file: 348)
 DIALOG(R) File 348:EUROPEAN PATENTS
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 00447919

UNION OF SIDING MATERIAL WITH TILES.

PATENT ASSIGNEE:

SANWA SHUTTER CORPORATION, (349500), 1-1, Nishi-shinjuku 2-chome
 INVENTOR:

PATENT (CC, No, Kind, Date): EP 484524 A1 920513 (Basic)

EP 484524 A1 921104

EP 484524 B1 941207

WO 9118159 911128

PRIORITY (CC, No, Date): EP 90907457 900522; WO 90JP647 900522

ABSTRACT EP 484524 A1

A union of **siding** material (10) and tiles (20) wherein metallic **siding** material (10) of a building and porcelain tiles (20) to be bonded to the outer surface of the **siding** material with dimensions corresponding to those of the material (10) are integrally united, and a horizontal engaging means (16) is formed on the outer surface of the **siding** material (10) for engaging with another engaging means (23) of the tile (20), so that the engagement of both engaging means (16, 23) gives an integral union structure; and the basic structural pattern is such that the engaging means (16) of the **siding** material (10) has a shape of an L whose shorter side is directed upward or downward and is positioned on the upper or lower side of the material, and the engaging means (23) of the tile (20) is formed as the edge to be inserted into said L-shaped upper or lower side, whereby the tile (20) is bonded to the **siding** material (10) when inserted therein sideways and slid, and a continuous arrangement of **siding** materials (10) in the vertical direction exhibits the effect of adapting the engaging means (16) of the **siding** materials (10) to form flat joint fillers (19). (see image in original document)

...SPECIFICATION one end and touches tile bed joint member 19 at the other end. It has a main portion 31 and opposite side flange portions 32. **Each end** of the main portion 31 has a bent end closure portion 33. Each flange portion 32 has a thickness substantially equal to the difference between...

...19. Tile build joint members 30 are inserted alternately with tiles 20 and fitted such that their flange portions 32 are laid on the back **side** of the **edge** portions of the tiles 20. The engaging means 16 of the siding members 10 are exposed as horizontal tile build joints, but the engaging means...leg portion 141 having mounting fins and a hollow main portion 142, these portions being integral with each other. The engaging means 116 on the **side** of the **siding** member 110 and engaging means 126 on the side of the tile 120 are initially engaged by mere hooking engagement. With the leg portion 141...

...corners of the exterior wall 2. In the corner matching parts, the engaging portions 118 and 119 of the engaging means 116 in the corresponding **ends** of **siding** members 110 matched at the corner are cut away. Water-proof sheets 150 are applied to flat matching portions, which are formed in this way...

...Similar fitting applies to an outside corner trim tile 220A.

A tile build joint member 230 is provided in a tile build joint between adjacent **side-by-side** tiles 220. As shown in Figure 24, the tile build joint member 230 is similar to the tile build joint member 30 noted above and...

...only to the straight joint as in the example of Figure 25 but also to the staggered joint.

Figure 26 shows a joint of opposed **ends** of adjacent **siding** members 210. At the end of the tile cross joint is used a joint member 250 having substantially the same sectional profile. The tile build joint member 230 is fitted such that the recessed portions 213 of the opposite

page 1 of 5

side siding members 220 are stridden by its flanges 232. The joint is not exposed to the outside.

Function

Using the materials as described above according to...

...SPECIFICATION in their size, their horizontal spacings disable a regular horizontal tile assembly, and thereby cause an irregular vertical alignment.

Furthermore, tiles have to be mounted **side by side**, with the irregular assembly mentioned above, for providing a barrier against water, but, due to the small defects, this barrier has a poor efficiency. A...one end and touches tile bed joint member 19 at the other end. It has a main portion 31 and opposite side flange portions 32. **Each end** of the main portion 31 has a bent end closure portion 33. Each flange portion 32 has a thickness substantially equal to the difference between...

p. 2

...19. Tile build joint members 30 are inserted alternately with tiles 20 and fitted such that their flange portions 32 are laid on the back **side** of the **edge** portions of the tiles 20. The engaging means 16 of the siding members 10 are exposed as horizontal tile build joints, but the engaging means...leg portion 141 having mounting fins and a hollow main portion 142, these portions being integral with each other. The engaging means 116 on the **side** of the **siding** member 110 and engaging means 126 on the side of the tile 120 are initially engaged by mere hooking engagement. With the leg portion 141...

...corners of the exterior wall 2. In the corner matching parts, the engaging portions 118 and 119 of the engaging means 116 in the corresponding **ends** of **siding** members 110 matched at the corner are cut away. Water-proof sheets 150 are applied to flat matching portions, which are formed in this way...

...Similar fitting applies to an outside corner trim tile 220A.

A tile build joint member 230 is provided in a tile build joint between adjacent **side-by-side** tiles 220. As shown in Figure 24, the tile build joint member 230 is similar to the tile build joint member 30 noted above and...

...only to the straight joint as in the example of Figure 25 but also to the staggered joint.

Figure 26 shows a joint of opposed **ends** of adjacent **siding** members 210. At the end of the tile cross joint is used a joint member 250 having substantially the same sectional profile. The tile build joint member 230 is fitted such that the recessed portions 213 of the opposite **side siding** members 220 are stridden by its flanges 232. The joint is not exposed to the outside.

Function

Using the materials as described above according to...

...CLAIMS A1

1. An exterior wall unit for an exterior wall of a building structure comprising a **siding** member made of a metal and one or more porcelain tiles corresponding in size to and fitted to the outside surface of said **siding** member, said **siding** member having the outside surface thereof formed with engaging means extending in the horizontal direction for engagement with said tile or tiles, each said tile being formed with engaging means for engagement with said engaging means of said **siding** member, each said tile being coupled to the outside surface of said **siding** member to be made integral therewith with the engagement of both said engaging means.
2. The exterior wall unit according to claim 1, wherein said **siding** member is formed by bending a metal sheet such that opposed paired sides thereof are formed with connecting means permitting fitting connection between adjacent **siding** members.
3. The exterior wall unit according to claim 2, wherein said engaging means of said **siding** member is constituted by two upwardly bent portions, one of said upwardly bent portions being formed along the upper **edge** of said **siding** member, the other one of said upwardly bent portions being formed beneath and parallel to said

- first-mentioned upwardly bent portion, and said engaging means...
- ...other one of said downwardly bent portions extending beneath and parallel to said first-mentioned downwardly bent portion, each said tile being fitted in said **siding** member with sidewise sliding therealong, said engaging means of said **siding** member forming a tile cross joint with a vertically adjacent **siding** member coupled to it.
4. The exterior wall unit according to claim 3, wherein said **siding** member corresponds in height to a plurality of tiles, and its outside surface has at least one horizontal engaging means having a T-shaped sectional...
- ...joint members each provided in each tile build joint, each said tile build joint member having flanges in contact with the outside surface of said **siding** member, said flanges being sandwiched between said **siding** member and tiles.
6. The exterior wall unit according to claim 2, wherein said engaging means of said **siding** means is constituted by two upwardly bent portions, one of said upwardly bent portions being formed along the upper **edge** of the **siding** means, the other one of said upwardly bent portions being formed beneath and parallel thereto, and said engaging means of each said tile is constituted...
- ...one of said downwardly bent portions extending beneath and parallel to said first-mentioned downwardly bent portion, each said tile being temporarily fitted to said **siding** member when it is hooked thereon from above, a tile cross joint member being fitted in a tile cross joint formed between vertically adjacent **siding** members coupled together to secure the tiles having been temporarily fitted on the upwardly bent portions.
7. The exterior wall unit according to claim 6, wherein said lower downwardly bent portion of said engaging means of said **siding** member has a downwardly bent portion and has a T-shaped sectional profile as a whole, said exterior wall unit further comprising one or more...
- ...a lower end portion engaged with said downwardly bent portion.
8. The exterior wall unit according to claim 2, wherein said engaging means of said **siding** member is constituted by an outside recessed portion having a sectional profile like a dovetail, and said engaging means of each said tile is constituted...
- ...lower edges of the tile and corresponding in width to said outside recessed portion, each said tile being elastically fitted in and held by said **siding** member by forcibly fitting said metal member in said outside recessed portion of said **siding** member, a tile cross joint member being fitted in a tile cross joint formed between vertically adjacent **siding** members coupled together.
9. The exterior wall unit according to claim 2, wherein said engaging means of said **siding** member is constituted by an outside...
- ...engaging means of each said tile is constituted by a separate metal member elastically fitted in a recessed portion defined by upper and lower back **side edge** portions of the tile and having upper and lower legs spaced apart by a distance corresponding to the width of said recessed portion of the tile, each said tile being elastically fitted in and held by said **siding** member by forcibly fitting said legs of said metal member fitted in the back side of the tile in said recessed portion of said **siding** member, a tile cross joint member being fitted in a tile cross joint formed between vertically adjacent **siding** members coupled together.
10. The exterior wall unit according to one of claims 8 and 9, wherein a tile cross joint member is formed in each tile cross joint by bending said **siding** member.
11. The external wall unit according to one of claims 7 and 8, wherein a tile build joint member is provided in each tile build joint, said tile build joint member has flanges in contact with the outside surface of said **siding** member, said flanges being sandwiched between said **siding** member and tiles.

p. 3

12. The exterior wall unit according to one of claims 6 and 7, wherein a tile build joint member is in each tile build joint, said tile build joint member being engaged by sole sliding with an engaging portion formed on the outside surface of said **siding** member. ...

...CLAIMS B1

1. An exterior wall unit (2) for an exterior wall of a building structure (1) comprising a **siding** member (110) made of a metal and one or more porcelain tiles (120) fitted to the outside surface of said **siding** member (110), said **siding** member having dimensions corresponding to a predetermined number of unit tiles and having the outside surface thereof formed with engaging means (116) extending in the...

p 4

...with said tile (120) or tiles, each said tile (120) being formed with engaging means (123) for engagement with said engaging means (116) of said **siding** member (110), each said tile (120) being coupled to the outside surface of said **siding** member (110) to be made integral therewith by engagement of both said engaging means (116, 123), characterized by the fact that tile build joint members...

...each provided in the joint between adjacent tiles, each said tile build joint member (230) having flanges in contact with the outside surface of said **siding** member (110), said flanges being sandwiched between said **siding** member (110) and said tiles (120).

2. The exterior wall unit according to claim 1, wherein said **siding** member (110) is formed by a metal sheet having connecting means, made up with bent opposed paired sides thereof, permitting fitting connection between adjacent **siding** members (110).
3. The exterior wall unit according to claim 2, wherein said engaging means of said **siding** member (110) is constituted by two upwardly inclined bent portions (118, 119), one (118) of said upwardly inclined bent portions (118, 119) being formed along the upper **edge** of said **siding** member (110), the other one (119) of said upwardly inclined bent portions being formed beneath and parallel to said first mentioned upwardly inclined bent portion ...

...downwardly inclined bent portions extending beneath and parallel to said first-mentioned downwardly inclined bent portion (122), each said tile (120) being fitted in said **siding** member (110) with sidewise sliding therealong, said engaging means (116) of said **siding** member (110) forming a tile cross joint with a vertically adjacent **siding** member (110) coupled to it.

4. The exterior wall unit according to claim 3, wherein said **siding** member (110) corresponds in height to a plurality of tiles (120), and its outside surface has at least one horizontal engaging means (119) having a T-shaped sectional profile.
5. The exterior wall unit according to claim 2, wherein said engaging means (116) of said **siding** means (110) is constituted by two upwardly inclined bent portions (118, 119), one (118) of said upwardly inclined bent portions being formed along the upper **edge** of the **siding** means, the other one (119) of said upwardly inclined bent portions (118, 119) being formed beneath and parallel thereto, and said engaging means of each...

...inclined bent portions extending beneath and parallel to said first-mentioned downwardly inclined bent portion (122), each said tile (120) being temporarily fitted to said **siding** member (110) when it is hooked thereon from above, a tile cross joint member (140) being fitted in a tile cross joint formed between vertically adjacent **siding** members (110) coupled together to secure the tiles (120) having been temporarily fitted on the upwardly inclined bent portions (118, 119).

6. The exterior wall unit according to claim 5, wherein said lower downwardly inclined bent portion (119) of said engaging means of said **siding** member (110) has a downwardly inclined bent portion and has a T-shaped sectional profile as a whole, said exterior wall unit

further comprising one...

...end portion engaged with said downwardly inclined bent portion (119).

7. The exterior wall unit according to claim 2, wherein said engaging means of said **siding** member (210), is constituted by an outside recessed portion (213) having a sectional profile like a dovetail, and said engaging means of each said tile...

...the tile (220) and corresponding in width to said outside recessed portion (213), each said tile (220) being elastically fitted in and held by said **siding** member by forcibly fitting said metal member (224) in said outside recessed portion of said **siding** member (210), a tile cross joint member (250) being fitted in a tile cross joint formed between vertically adjacent **siding** members (210) coupled together.

8. The exterior wall unit according to claim 2, wherein said engaging means of said **siding** member (210) is constituted by an outside horizontal recessed portion (213) having a sectional profile like a dovetail, and said engaging means of each said tile (220) is constituted by a separate metal member (224) elastically fitted in a recessed portion (213) defined by upper and lower back **side edge** portions of the tile (220) and having upper and lower legs spaced apart by a distance corresponding to the width of said recessed portion of the tile (220), each said tile (220) being elastically fitted in and held by said **siding** member (210) by forcibly fitting said legs of said metal member (224) fitted in the back side of the tile (220) in said recessed portion (213) of said **siding** member (210), a tile cross joint member being fitted in a tile cross joint formed between vertically adjacent **siding** members (210) coupled together.

9. The exterior wall unit according to one of claims 7 and 8, wherein a tile cross joint member (250) is formed in each tile cross joint by bending said **siding** member (210).

10. The exterior wall unit according to one of claims 6 and 7, wherein a tile build joint member (230) is provided in each tile build joint, said tile build joint member (230) has flanges in contact with the outside surface of said **siding** member (210), said flanges being sandwiched between said **siding** member (210) and tiles (220).

11. The exterior wall unit according to one of claims 5 and 6, wherein a tile build joint member (230)...

...tile build joint, said tile build joint member (230) being engaged by sole sliding with an engaging portion formed on the outside surface of said **siding** member (210). ...

P. 5

39/3,AB,K/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012876352

WPI Acc No: 2000-048185/200004

XRPX Acc No: N00-037555

Siding length stretching structure for exterior material used in covering e.g. external wall surface of building

Patent Assignee: ASAHI GLASS CO LTD (ASAG)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11311009	A	19991109	JP 98281738	A	19981002	200004 B

Priority Applications (No Type Date): JP 9841829 A 19980224; JP 97281778 A 19971015

Abstract (Basic):

NOVELTY - A lower end support (15) holds a junction of a **siding** (10) to a foundation material such that the entire upper surface is kept smooth. A sealant for waterproofing is **installed** on a turning over surface of the **siding**. **Both side edges** of the **siding** are held with a side clamp (14) which connects the turning over surface and a notch. The notch is formed below a back turning over surface.

USE - For exterior material used in covering e.g. external wall surface of building.

ADVANTAGE - Improves construction due to lower end support which prevents need to form notch for clamp, reducing time for processing. Ensures holding of **siding** weight due to clamp **tool** and lower end support. Ensures joining of left and right edges of adjoining **siding**s due to absence of notch in lower **end** surface of **siding**, reducing stress concentration.

DESCRIPTION OF DRAWING(S) - The figure shows the explanatory view of the **siding** length stretching structure.

Siding (10)

Side clamp (14)

Lower end support (15)

69/3,AB,K/3 (Item 3 from file: 350)
 DIALOG(R) File 350:Derwent WPIX
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011698409

WPI Acc No: 1998-115319/199811

XRPX Acc No: N98-092238

Hanging hardware for attachment of **siding** to wall panel -
 projects L-shaped claw for upper stage **side siding**
holding upward from backside receiving portions set to **siding side**

Patent Assignee: MISAWA HOMES CO LTD (MISA-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10002086	A	19980106	JP 96153578	A	19960614	199811 B

Priority Applications (No Type Date): JP 96153578 A 19960614

Abstract (Basic): JP 10002086 A.

The hardware (2) has winding sections (6,10) formed at different levels and angles between attachment portions (4,11) set against wall panel, and backside receiving portions (7,9) set to a **siding** (12) **side**.

An L-shaped claw (8) for an upper stage **side siding**
holding is projected upward from the same backside receiving portions.

ADVANTAGE - Eliminates restriction in attachment of hanging hardware to siding e.g. interference of siding and attachment machine screw. Eliminates use of scraping up portion at siding backside. Ensures provision of clearance for air passage and water flow to backside of siding while eliminating attachment of trunk **edge** for air passage and water flow. Improves external appearance of joint since vertical attachment level of siding is evened up.

103/9/1 (Item 1 from file: 350)
 DIALOG(R) File 350:Derwent WPIX
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016321961 **Image available**
 WPI Acc No: 2004-479856/200445
 XRPX Acc No: N04-378427

Plank **siding installing tool** for use in building, has
 handle defining foot portion with bolt receiving aperture and well nut to
 secure handle in position on main body for receiving uninstalled plank of
 siding on seat portion

Patent Assignee: PARTIN G C (PART-I)

Inventor: PARTIN G C

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20040123478	A1	20040701	US 2002330392	A	20021230	200445 B

Priority Applications (No Type Date): US 2002330392 A 20021230

Abstract (Basic): US 20040123478 A1

NOVELTY - The tool has a handle (104) defining a foot portion with a bolt receiving aperture (203) and a seat portion (201). A bolt (301) is connected to a neck portion (102) of a preset distance from an end passing through the aperture. A well nut (302) cooperates with the bolt to secure the handle in position on a main body for receiving uninstalled planks of a siding on the seat portion.

USE - Used for **installing** a plank of **siding** on a building.

ADVANTAGE - The **tool** facilitates **installation** of the plank **siding** on a building by a single person. The handle extends in a spaced parallel relation to the neck portion for facilitating easy grasping of the handle for positioning and removal of the tool.

DESCRIPTION OF DRAWING(S) - DESCRIPTION OF DRAWING - The drawing shows an environmental, perspective view of a **siding tool**.

Neck portion (102)

Handle (104)

Seat portion (201)

Bolt receiving aperture (203)

Bolt (301)

Well nut (302)

39/3,AB,K/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014240782

WPI Acc No: 2002-061482/200208

XRPX Acc No: N02-045605

Reusable **tool** for fixing lap **siding** board on housing, has
spring that is pushed against outer face of lap **siding** board when
its lower edge is introduced between vertical wall of base and spring

Patent Assignee: MANSFIELD S E (MANS-I)

Inventor: MANSFIELD S E

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20010034952	A1	20011101	US 2000197703	A	20000418	200208 B

Priority Applications (No Type Date): US 2000197703 P 20000418; US

2001836563 A 20010417

Abstract (Basic):

NOVELTY - The spring is attached to the base that has a vertical wall at one end. When lower **edge** of the lap **siding** board is introduced between vertical wall and spring, the spring is pushed against outer face of board and vertical wall is set at back side of board. The spring is made to rest in the direction of vertical wall.

DETAILED DESCRIPTION - The height of wall is set equal to desired overlap of lap **siding** boards. The length of base is set greater than thickness of **edge** of lap **siding** board. The tip is extended out from upper edge of wall.

USE - For **installation** of horizontal lap **siding** boards on building.

ADVANTAGE - Simplifies usage of **tool** by simplifying its size. Avoids need for complex manipulation of locking pins and mechanisms during their use. Reduces manufacturing cost by simplifying manufacturing process of tools. Simplifies fixation and removal of tools.

DESCRIPTION OF DRAWING(S) - The figure shows the perspective view of **installation tool**.

1/9/1

DIALOG(R)File 350:Derwent WPIX

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015216128 **Image available**

WPI Acc No: 2003-276665/200327

XRPX Acc No: N03-219892

Lap siding installation tool, has lower seat which contacts the bottom edge of a previously installed piece of lap siding, and an upper seat that supports the bottom of the installed siding

Patent Assignee: HENDRICKS D D (HEND-I); NADAL M J (NADA-I); TIEL K P (TIEL-I); INVENTIONEERING INC (INVE-N)

Inventor: HENDRICKS D D; NADAL M J; TIEL K P

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030014877	A1	20030123	US 2001910449	A	20010719	200327 B
US 6705021	B2	20040316	US 2001910449	A	20010719	200420

Priority Applications (No Type Date): US 2001910449 A 20010719

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20030014877	A1	16	G01D-021/00	
US 6705021	B2		G01D-021/00	

Abstract (Basic): US 20030014877 A1

NOVELTY - A lower seat (34) contacts the bottom edge of a previously installed piece of lap siding, while an upper seat (36) supports the bottom of the installed siding. The lower and upper seats are spaced apart by a seat distance that defines the reveal distance.

USE - Lap siding installation tool.

ADVANTAGE - Provides a tool that is relatively simple in design, does not remain fixed to the siding after fastening, and yet can be used for the rapid, accurate and convenient installation of lap siding by two or more installers.

DESCRIPTION OF DRAWING(S) - The figure shows the side elevational view of the lap siding installation tool.

Lower seat (34)

Upper seat (36)

pp; 16 DwgNo 2/9

61/3,AB,K/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015138989

WPI Acc No: 2003-199515/200319

Related WPI Acc No: 2001-565358

XRFX Acc No: N03-158722

Siding gauge tool for installing elongated panels onto building structure, has spring that moves towards and away from arm portion in order to define throat to receive board to be installed

Patent Assignee: REMPE S (REMP-I)

Inventor: REMPE S

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020170198	A1	20021121	US 2000507472	A	20000217	200319 B
US 6684521	B2	20040203	US 2000507472	A	20000217	200413

Priority Applications (No Type Date): US 2002117579 A 20020405; US

2000507472 A 20000217

Abstract (Basic):

NOVELTY - An arm portion (12) abutting against a previously installed board extends perpendicularly from a board support with a lip (16) extending away from the arm portion. A spring (18) extending from upper surface of the board support is movable towards and away from the arm portion in order to define a throat to receive the board to be installed.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for installation method of elongated rectangular board to building wall.

USE - Siding gauge tool for installing elongated panels, boards and/or siding material in vertical wall of building structure.

ADVANTAGE - Enables automatic gauging of overlap of the board with a previously installed piece of board, thereby eliminating the task of measuring and marking by the installer. The arrangement of the tool prevents slip of the board during initial nailing.

DESCRIPTION OF DRAWING(S) - The figure shows a perspective view of the siding gauge tool.

Arm portion (12)

Lip (16)

Spring (18)

103/3,AB,K/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) Thomson Derwent. All rts. reserv.

015136980

WPI Acc No: 2003-197506/200319

XRPX Acc No: N03-156799

Installation device for **siding** has movable sleeve that surrounds handle which extends from flange that in turn accommodates overlapping siding board

Patent Assignee: BANKSON J R (BANK-I)

Inventor: BANKSON J R

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6494016	B1	20021217	US 2000692130	A	20001019	200319 B

Priority Applications (No Type Date): US 2000692130 A 20001019

Abstract (Basic):

NOVELTY - A movable sleeve (22) surrounds the handle (18) which extends from the flange that in turn accommodates the overlapping siding board. The handle and the sleeve allow the overlap between boards to be measured. The overlapping board is held so that a sole **installer** can **install** the **siding** boards.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for lap board **siding installation tool**.

USE - For the **installation** of overlapping board **siding** e.g. hardboard siding on a wall.

ADVANTAGE - Allows the installer to use the same device on different jobs requiring different overlaps.

DESCRIPTION OF DRAWING(S) - The figure shows a right side elevational view of the **siding installation** device.

Handle (18)

Sleeve (22)

1/9/2
DIALOG(R) File 350:Derwent WPIX
(c) Thomson Derwent. All rts. reserv.

014768250 **Image available**

WPI Acc No: 2002-588954/200263

XRPX Acc No: N02-467260

Border retainer for free end of wallpaper border segment during application, has attachment panel with handle and spikes, and bottom panel with retaining flange

Patent Assignee: COLEMAN M T (COLE-I); MOREAU M J (MORE-I)

Inventor: COLEMAN M T; MOREAU M J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6412159	B1	20020702	US 2001789436	A	20010220	200263 B

Priority Applications (No Type Date): US 2001789436 A 20010220

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6412159	B1		9	B25B-027/14	

Abstract (Basic): US 6412159 B1

NOVELTY - The retainer comprises a rectangular attachment panel (3) having retaining surface (3a) and attachment surface at the back. A handle (8) is provided in retaining surface corresponding to the attachment spikes projecting from the attachment surface. A bottom panel (4) extending perpendicular to the retaining surface, has a retaining flange extending upward.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for retaining method of adhesive applied free end of border segment of wallpaper.

USE - For retaining free end of adhesive applied border segment of wallpaper during application on wall surface.

ADVANTAGE - Prevents inadvertent curling of free end of border segment before the adhesive dries, as attachment spikes for temporary attachment and handle for pulling out spikes are provided.

DESCRIPTION OF DRAWING(S) - The figure shows a perspective view of the border retainer.

Rectangular attachment panel (3)

Retaining surface (3a)

Bottom panel (4)

Handle (8)

pp; 9 DwgNo 3/9

61/3,AB,K/3 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) Thomson Derwent. All rts. reserv.

014081144

WPI Acc No: 2001-565358/200163

Related WPI Acc No: 2003-199515

XRPX Acc No: N01-420908

Siding gauge tool for installation of fiber cement

siding to building structure, includes elongate base portion, arm portion, and flange portion

Patent Assignee: REMPE S (REMP-I)

Inventor: REMPE S

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200161272	A1	20010823	WO 2001US5329	A	20010220	200163 B
AU 200137069	A	20010827	AU 200137069	A	20010220	200176
US 6367160	B1	20020409	US 2000507472	A	20000217	200227
EP 1272810	A1	20030108	EP 2001909296	A	20010220	200311

Priority Applications (No Type Date): US 2000507472 A 20000217

Abstract (Basic):

NOVELTY - The tool (10) includes an elongate base or handle portion (12), and an arm portion (14) extending upwardly at a right angle to the handle portion, and a flange portion (16) extending at a right angle outwardly from the arm portion. A spring (18) is carried on the upper surface (20) of the base, and extends toward the arm portion to define a gap (22). For use, one or more of the tools are placed on the bottom edge of the piece of siding so that the siding is releasably captured in the gap.

USE - The tool automatically gauges the overlap of the siding, eliminating the task of measuring and marking by the installer.

ADVANTAGE - The tool keeps the siding from slipping during the initial nailing. The tool also allows one person to hang, gauge, hold and nail the siding. It is simple to use and efficient.

DESCRIPTION OF DRAWING(S) - The drawing is a perspective view of the siding gauge tool.

Tool (10)
 Handle portion (12)
 Arm portion (14)
 Flange portion (16)
 Spring (18)
 Upper surface (20)
 Gap (22)

69/3,AB,K/1 (Item 1 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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013832658

WPI Acc No: 2001-316870/200134

XRPX Acc No: N01-227631

Scoring tool and technique for scoring **siding** materials such as aluminum and/or vinyl comprises extendible measuring rail, scoring blade, alignment block and U-shaped catch

Patent Assignee: HARVEY B (HARV-I)

Inventor: HARVEY B

Number of Countries: 003 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2304051	A1	20010325	CA 2304051	A	20000405	200134 B
AU 200133414	A	20011011	AU 200133414	A	20010403	200171
US 6334259	B1	20020101	US 2000593700	A	20000615	200207
CA 2304051	C	20040824	CA 2304051	A	20000405	200457

Priority Applications (No Type Date): CA 2304051 A 20000405

Abstract (Basic):

NOVELTY - To tool (30) comprises an extendible measuring rail to which a scoring blade (36) is pivotally mounted at it's distal **end**. An improved alignment block (34) comprises a guide (33) for **engaging the end** of the U-shaped catch at the bottom **edge** of a **siding** strip and a housing (31) for the measuring rail (35).

DETAILED DESCRIPTION - The housing is attached to the guide so as to space the measuring rail and scoring knife above the surface of the sliding material. The measuring rail can be locked at an extended position.

An INDEPENDENT CLAIM is made for the method of using the tool.

USE - Measuring and scoring aluminum and vinyl siding for the cladding of exterior walls.

ADVANTAGE - A simple and reliable scoring tool requiring little job-site setup which is easily used by an installer and requires little effort to maintain alignment. Furthermore the tool will not damage the surface of the siding material during use and can be interlocked with the material from either **end** of the U-shaped channel in the guide.

DESCRIPTION OF DRAWING(S) - The drawing shows an isometric sketch of the tool and siding material.

Tool (30)
 Housing (31)
 Guide (33)
 Alignment block (34)
 Measuring rail (35)
 Scoring blade (36)

23/9/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) Thomson Derwent. All rts. reserv.

012650517

WPI Acc No: 1999-456622/199938

XRPX Acc No: N99-341399

Stabilizing frame for securing plastics **corner siding**

installed over existing wooden material at exterior of building

Patent Assignee: MARTIN C R (MART-I)

Inventor: MARTIN C R

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5927031	A	19990727	US 9856325	A	19980407	199938 B

Priority Applications (No Type Date): US 9856325 A 19980407

Abstract (Basic): US 5927031 A

NOVELTY - Vertical slots (14,15) are individually formed at the top surfaces of posts (12,13) protruded upwards from the ears (30,31) of the V-shaped stabilizing frame (10). The slots receive fasteners pierced through the free **ends** of a **corner siding** and fixes the **corner siding** to the building. The stabilizing frame has surfaces that abuts the building walls.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a **corner siding** strip attachment to the building **corner**

USE - For securing plastics **corner siding** **installed** over existing wooden material at exterior of building. Also for protecting wood at the building corner and increase building use life.

ADVANTAGE - Ensures stability of **corner siding**, hence enhancing its installation appearance. Simplifies **installation** of **corner siding** to the building **corner** even by one worker without inserting frame between building and siding.

DESCRIPTION OF DRAWING(S) - The figure shows the plan view of the stabilizing frame.

Stabilizing frame (10)

Posts (12,13)

Slots (14,15)

Ears (30,31)



US005927031A

United States Patent [19]
Martin

[11] **Patent Number:** **5,927,031**
[45] **Date of Patent:** **Jul. 27, 1999**

[54] **STABILIZER FRAME FOR CORNER SIDING AND METHOD**

[76] **Inventor:** **Charlie R. Martin**, 6440 George
Hildebran School Rd., Hickory, N.C.
28602

4,150,517	4/1979	Warner, Sr.	52/288
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5,433,048	7/1995	Strasser	52/288.1
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[21] **Appl. No.:** **09/056,325**

[22] **Filed:** **Apr. 7, 1998**

[51] **Int. Cl.⁶** **E04C 2/38**

[52] **U.S. Cl.** **52/288.1; 52/717.01; 52/718.04;**
52/717.03; 52/717.05; 24/297

[58] **Field of Search** **52/287.1, 288.1,**
52/716.3, 716.4, 716.8, 717.01, 718.01,
718.04, 717.03, 717.05; 24/289, 297

[56] **References Cited**

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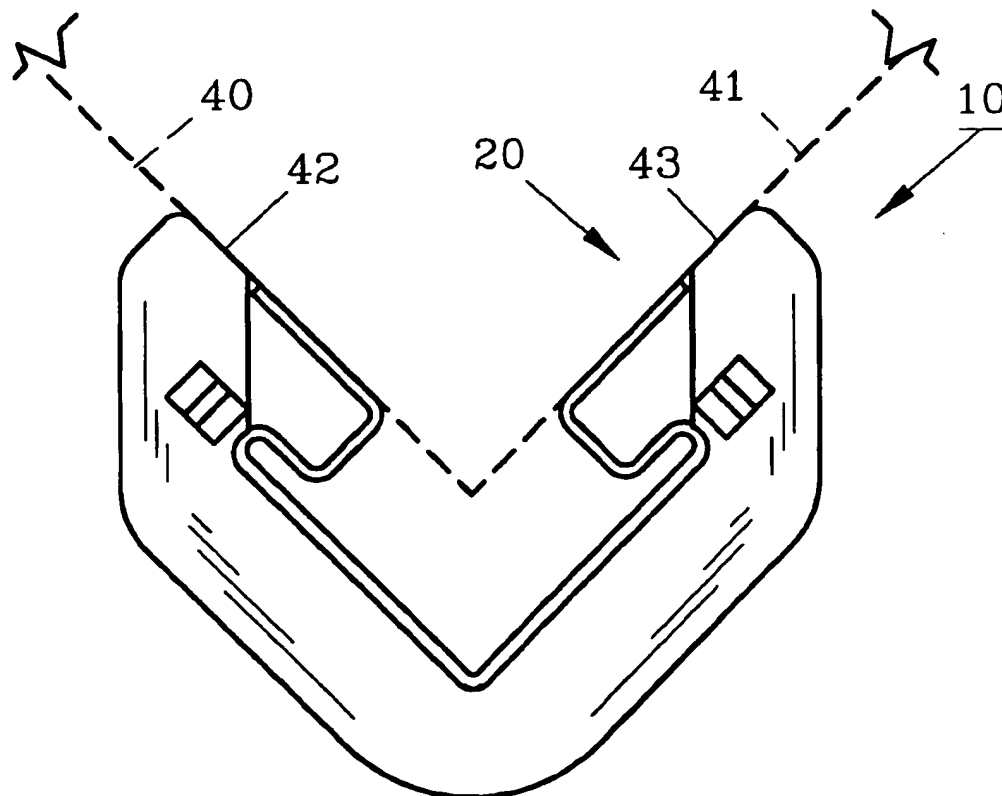
Primary Examiner—Christopher Kent

Assistant Examiner—Yvonne Horton-Richardson

[57] **ABSTRACT**

A stabilizer frame enables a single worker to attach a strip of corner polymer siding to a building. The stabilizer frame includes a right-angled inward-facing surface which receives the corner siding exterior faces and also includes wall-engaging surfaces. The worker raises the strip of corner siding against the building and holds it with the stabilizer frame by one hand. The other hand may insert a tack into a slotted post provided on the frame and drive the tack through the corner siding into a building wall. The process is repeated to secure both edges of the corner siding throughout the length of the corner siding.

4 Claims, 2 Drawing Sheets



69/3,AB,K/2 (Item 2 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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012598047

WPI Acc No: 1999-404153/199934

XRPX Acc No: N99-301190

Tool for applying sheet **siding** and sub **siding** to a building

Patent Assignee: BROOKER W C (BROO-I)

Inventor: BROOKER W C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5921058	A	19990713	US 96738850	A	19961028	199934 B

Priority Applications (No Type Date): US 96738850 A 19961028

Abstract (Basic): US 5921058 A

Abstract (Basic):

NOVELTY - The tool (10) includes a vertical guide plate (32) with slightly bent **ends** which joins a base plate (30) perpendicularly making a shelf onto which sheets (12) of paneling will rest. The tool is attached temporarily to the bottom corner of fastened sheets to **hold** the next sheet being applied in position for fastening. The tool is also used with a spacer to attach the first sheet of paneling in the proper location of the corner of the building.

USE - For applying sheet siding and sub siding to a building, e.g. a concrete block building, and also for applying storm protection plywood over windows for wind protection.

ADVANTAGE - Allows single worker to apply sheet **siding**, so that the **edge** of the sheet is aligned with the center of the proper stud (14) and the sheet overlaps the bottom plate easily and consistently.

DESCRIPTION OF DRAWING(S) - The drawings show a perspective view of a wood frame building with a siding tool in its start position, and an isometric perspective view of the tool.

- tool (10)
- sheets (12)
- studs (14)
- elongated base plate (30)
- guide plate (32)
- face surface (34)
- top surface (44)

39/3,AB,K/3 (Item 3 from file: 350)
 DIALOG(R) File 350:Derwent WPIX
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011279821

WPI Acc No: 1997-257724/199723

XRPX Acc No: N97-213161

Building exterior overlapping **siding** boards alignment **tool** -
 has handle contg upwardly facing alignment device for engaging lower
edge of second **siding** board to be **installed** on building
 in overlapping relation to first **siding** board

Patent Assignee: COLAVITO C (COLA-I)

Inventor: COLAVITO C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5623767	A	19970429	US 95496053	A	19950628	199723 B

Priority Applications (No Type Date): US 95496053 A 19950628

Abstract (Basic): US 5623767 A

The **tool** includes an elongated body member 11 having a downwardly facing J-shaped hook 12 integrally formed at its terminal end for engaging an upper **edge** of a first **siding** board enabling the **tool** to depend from the upper edge. An inverted L-shaped handle 13 with a short leg (13a) portion and a long leg (13b) portion. The handle is pivotally attached to the body member at the short leg portion by a connecting device. The latter imparts a 360 degree rotational movement to the handle in a plane parallel to an exterior surface of the first **siding** board between a **siding** engagement position and a **siding** disengagement position.

The handle including an upwardly facing alignment device for engaging the lower **edge** of a second **siding** board to be **installed** on the building in overlapping relation to the first **siding** board, when the **tool** is in a depending relation to the first **siding** board.

ADVANTAGE - Allows convenient removal from building after **installation** is completed.

Building exterior overlapping **siding** boards alignment **tool**

69/3,AB,K/4 (Item 4 from file: 350)
 DIALOG(R) File 350:Derwent WPIX
 (c) Thomson Derwent. All rts. reserv.

010978855

WPI Acc No: 1996-475804/199647

XRFX Acc No: N96-401313

Hanger for installing floating **siding** wall of lap **siding** on vertical studs - has series of formed **siding** locator-retainer members which are fastened to studs with **siding** members situated in them, the **siding** members not being fastened to studs directly

Patent Assignee: RADEMACHER R J (RADE-I)

Inventor: RADEMACHER R J

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5564245	A	19961015	US 94245421	A	19940518	199647 B

Priority Applications (No Type Date): US 94245421 A 19940518

Abstract (Basic): US 5564245 A

A number of J-shaped lower **siding** locator-retainer members fastened to the series of spaced upright studs. An elongated **siding** member has upper and lower **edges**, the lower **edge** of the **siding** member being positioned in the J-retainers. A series of intermediate **siding** locator-retainer members is included for **engaging** the upper **edge** of the first **siding** member. These are fastened to the studs and have a device for locating and retaining a next higher **siding** member with its lower **edge** in parallel alignment with the lower **edge** of the first **siding** member.

A series of upper locator-retainer members is attached to the studs and **engage** the upper **edge** of the upper **siding** member. Each of the upper **siding** locator-retainer members has an elongated vertical component attachable to a stud, a generally horizontal component extending outwardly from the bottom of and normal to the vertical component, and a flange extending downwardly from the **end** of the horizontal component and forming a downwardly opening recess in the upper **siding** locator-retainer member.

USE/ADVANTAGE - For cladding of floating wall on outside of house buildings. No nails have to be used which is advantage when hard and dense pressed board sidings which are resistant to nails, are used.

23/9/5 (Item 5 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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010788875

WPI Acc No: 1996-285828/199629

XRPX Acc No: N96-239981

Levelling device for aligning **siding** around **corner** of building - has arms which can be folded to fit around interior and exterior building corners and used to level **ends** of **siding** **installed** round house, with levels to maintain arms level

Patent Assignee: FINK G (FINK-I)

Inventor: FINK G

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5524353	A	19960611	US 95429358	A	19950426	199629 B

Priority Applications (No Type Date): US 95429358 A 19950426

Abstract (Basic): US 5524353 A

The device includes two elongate planar arms having ends and pivotally attached to a link, a hinge connection joining first ends of the arms to permit rotary movement of the arms toward and away from each other, and a level on the device to maintain arms level. The hinge connection includes a centre link and a pair of spaced apart hinges between the link and the arms.

The arms are provided with alignment **edges** for fitting under **edges** of **siding** and aligning the **siding** on the building. Recesses are provided in the arms adjacent the length and a pocket is provided in the link between the hinges. The recesses and pocket space the device from a corner moulding secured to the building prior to attaching siding.

ADVANTAGE - Once aligned, siding is attached to walls and siding can be carried out accurately around corner.



US005524353A

United States Patent [19][11] **Patent Number:** **5,524,353****Fink**[45] **Date of Patent:** **Jun. 11, 1996**[54] **SIDING LEVELING DEVICE**[76] **Inventor:** **George Fink, 617 Good Hope Rd., Mechanicsburg, Pa. 17055**[21] **Appl. No.:** **429,358**[22] **Filed:** **Apr. 26, 1995**[51] **Int. Cl.⁶** **B43L 7/10; G01C 9/00**[52] **U.S. Cl.** **33/451; 33/452; 33/456; 33/538**[58] **Field of Search** **33/451, 452, 456, 33/459, 526, 529, 534, 535, 538, 114, 474, 475, 478, 418, 420, 465**[56] **References Cited****U.S. PATENT DOCUMENTS**

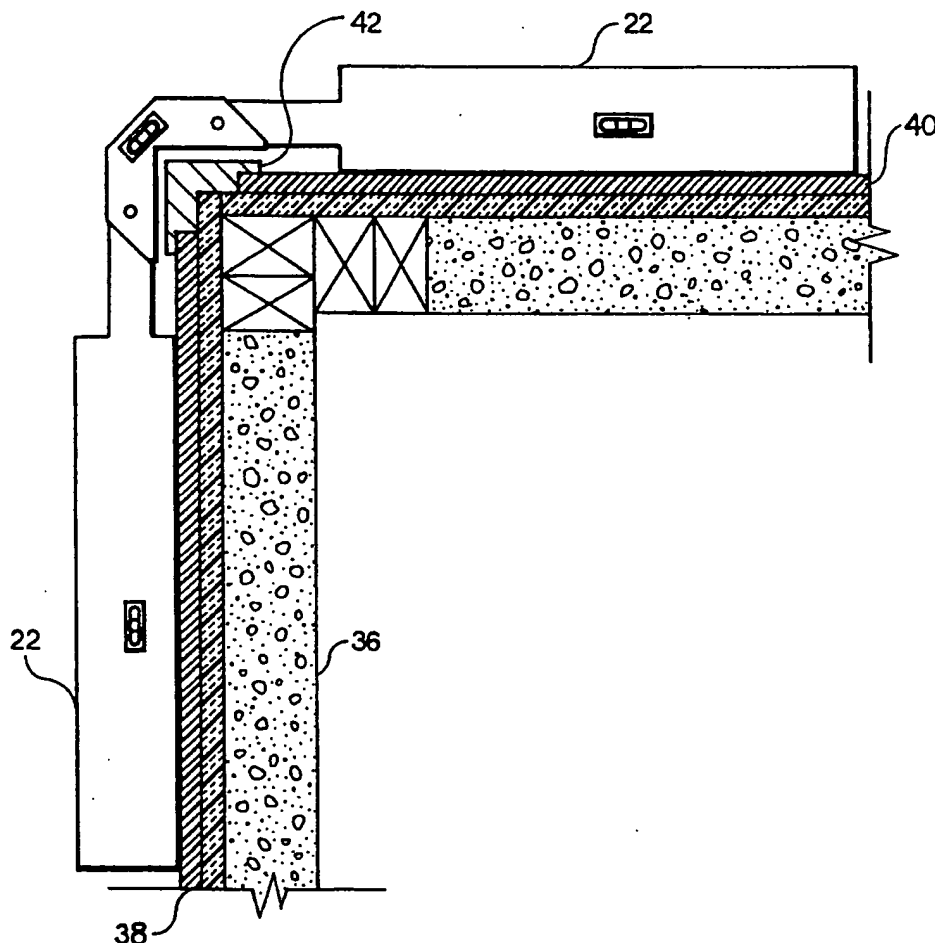
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Primary Examiner—Christopher W. Fulton
Attorney, Agent, or Firm—Thomas Hooker

[57] **ABSTRACT**

A leveling device for extending a course of siding around an interior or exterior building corner includes a center link and two elongate planar arms pivotally attached to the link. The arms are provided with alignment edges for fitting under edges of siding and aligning the siding on the building. Recesses are provided in the arms adjacent the length and a pocket is provided in the link between the hinges. The recesses and pocket space the device from a corner molding secured to the building prior to attaching siding.

9 Claims, 3 Drawing Sheets

61/3,AB,K/4 (Item 4 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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010501592

WPI Acc No: 1995-402913/199551

XRPX Acc No: N95-291654

Installation tool for hanging siding strip e.g.

wooden clap-board on wall of building - involves J-shaped bracket with lower end hook and longitudinally aligned equally spaced openings, and adjustable sliding support attached to bracket with pair of projections with same spacing as bracket openings

Patent Assignee: LAPLANTE D J (LAPL-I)

Inventor: LAPLANTE D J

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5465499	A	19951114	US 94293293	A	19940822	199551 B

Priority Applications (No Type Date): US 94293293 A 19940822

Abstract (Basic): US 5465499 A

The tool (10) is used to hang a siding on a building wall (12), and has a J-shaped bracket (14) made from a tough durable material, with a hook (16) at its lower end which has an outwardly projecting stop (18) and a reversely bent lip (20) inclined at roughly 95deg. to the stop. The bracket has a series of equally spaced parallel slot openings extending perpendicularly to its longitudinal axis situated above the hook.

An adjustable sliding support (32) has pair of projections or legs (34,36) with a spacing equal to that of the bracket slot openings, and forms a releasable attachment to the bracket, to selectively adjust the extent to which a siding is exposed to the weather. The longer leg (34) provides a seat (34A) for an overlying siding (40) which overlaps an underlying siding (42) previously attached to the wall surface (44). The lip of the bracket hook is wedged under the thicker bottom edge (42A) of the underlying siding to securely maintain bracket in position.

ADVANTAGE - Simple, adjustable mechanism without involving moving parts and having only 2 separate components. Does not require use of a fastener e.g. spike/nail driven into the wall for support.

69/3,AB,K/5 (Item 5 from file: 350)
 DIALOG(R) File 350:Derwent WPIX
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010267822

WPI Acc No: 1995-169077/199522

XRPX Acc No: N95-132507

Jig for installing lamp siding - has hook portion with
 memory characteristic for automatically resuming its shape after being
 pulled free of **siding**

Patent Assignee: LENZ M R (LENZ-I)

Inventor: LENZ M R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5408757	A	19950425	US 94237163	A	19940503	199522 B

Priority Applications (No Type Date): US 94237163 A 19940503

Abstract (Basic): US 5408757 A

The siding **jig** includes a body member, and a slot leading
 down from the upper **end** of the body member and extending
 laterally through it for receiving and supporting a piece of siding to
 be installed. The slot includes a bottom seat device that determines a
 desired overlap of a piece of siding when the piece of siding is laid
 edgewise.

The slot is defined at the rear of the piece by a wall terminating
 at its upper **end** in a rearwardly turned hook portion that can
 hook over the top **edge** of a previously installed piece of siding.
 That arrangement is for supporting a piece of siding to be installed
 with the rear wall extending up between the previously installed piece
 of siding and a piece of siding being installed.

ADVANTAGE - Simplified in structure, inexpensive for mfg, efficient
 in use.

1/9/3
DIALOG(R) File 350:Derwent WPIX
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009986961 **Image available**

WPI Acc No: 1994-254672/199431

XRPX Acc No: N94-200489

Architectural structure siding application appts - has longitudinally
extending gauge member, elements for engaging various pieces of sidings
respectively and handle secured to gauge member

Patent Assignee: MCLAUGHLIN M F (MCLA-I)

Inventor: MCLAUGHLIN M F

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5335423	A	19940809	US 92941656	A	19920908	199431 B

Priority Applications (No Type Date): US 92941656 A 19920908

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5335423	A		9	G01D-021/00	

Abstract (Basic): US 5335423 A

The appts includes gauge member (12), which is rectangular (20) and made of two portions (24, 26), a first element for engaging a first piece of siding (14), a second element for engaging a second piece of siding (16), and a handle element (18) secured to the first portion (24) of gauge member. A locking element (32) cooperates with indentations (36) and spine (42) to secure the siding (14) and guides it along slot element (22).

The element for engaging second piece of siding (16) has first leg member (60) perpendicular to second leg member (62) and has L-shaped configuration. the second leg has an edge (40) which cooperates with edge (38) of element (14) to select the sepn between bases of successive courses of siding. Once adjusted as desired, the appts is placed in abutting contact with a course of siding previously attached to an architectural structure. Finally, the board positioned in the element for engaging the second piece of siding is attached to the architectural structure.

USE/ADVANTAGE - For alignment of successive courses of clapboards. Permits easy and quick mounting of siding while maintaining consistent sepn.

Dwg. 2/3

103/3,AB,K/3 (Item 3 from file: 350)
 DIALOG(R) File 350:Derwent WPIX
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009923207

WPI Acc No: 1994-190918/199423

XRPX Acc No: N94-150177

Tool for lap siding installation - comprises current board slot, reference board slot and lower surface all three disposed at angle from reference surface at top of tool

Patent Assignee: SINGLETERRY D S (SING-I)

Inventor: SINGLETERRY D S

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5319909	A	19940614	US 91807093	A	19911213	199423 B

Priority Applications (No Type Date): US 91807093 A 19911213

Abstract (Basic): US 5319909 A

The tool includes a current board slot, a reference board slot and a lower surface, all three of which are disposed at an angle alpha from the reference surface at the top of the tool. The angle alpha corresponds to the angle between properly **installed siding** boards and the wall upon which they are installed. The current board slot has dimensions conforming to the dimensions of the **siding** being **installed**. The reference board slot is shorter than the current board slot by the amount of overlap that is desired between adjacent boards after the **siding** is **installed**.

Optionally, a second set of these features with alternative dimensions can be disposed on the back of the tool making it suitable for use in installing a second type of siding when its orientation is reversed. To use the tool, a current board to be installed is lifted until it is close to its desired position and then fitted within the current board slot of the tool.

69/3,AB,K/6 (Item 6 from file: 350)
 DIALOG(R) File 350:Derwent WPIX
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009878885

WPI Acc No: 1994-158799/199419

XRPX Acc No: N94-124832

Building joist hanger **installation tool** - has flanges on
tool body to **engage** flanges on hanger in correct configuration

Inventor: RENNIE R J

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5312095	A	19940517	US 9327396	A	19930308	199419 B

Priority Applications (No Type Date): US 9327396 A 19930308

Abstract (Basic): US 5312095 A

The adjustable tool for the installation of joist hangers to the supporting structure of a building, comprises a body of the same nominal width as the joist to be installed, and of a height no more than that of the smallest joist to be installed.

The body has bottom and **side** flanges attached to the rear of the body and extending forward towards the face of the body only far enough to **engage** the bottom and **side** flanges of a joist hanger. This allows the face of the body to touch the support at the point of installation with a joist hanger **engaged**, and the body also having slots in the **side** flanges so arranged to allow barbs on a joist hanger to enter.

ADVANTAGE - Allows rapid and accurate installation of joint hangers.

69/3,AB,K/7 (Item 7 from file: 350)
 DIALOG(R) File 350:Derwent WPIX
 (c) Thomson Derwent. All rts. reserv.

009854265

WPI Acc No: 1994-134121/199416

XRFX Acc No: N94-105369

Siding alignment tool for gauging spacing between lowermost ends of **siding** members - has first and second planar side walls arranged in parallel having first end wall spaced from second end wall having first step between, and second step positioned at uppermost end of second end wall parallel to first step.

Inventor: JOHNSON J T; JOHNSON S L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5305532	A	19940426	US 9348305	A	19930419	199416 B

Priority Applications (No Type Date): US 9348305 A 19930419

Abstract (Basic): US 5305532 A

The gauge member includes first and second planar side walls arranged in a parallel coextensive relationship having a first end wall spaced from a second end wall having a first step therebetween, a second step is positioned at an uppermost end of the second end wall parallel to the first step. The first step and second step are spaced apart a predetermined spacing, with a third end wall and a fourth end wall spaced from and parallel relative to one another at an opposed end of the body structure.

The third and fourth steps are spaced apart a further spacing greater than the predetermined spacing. The first and second steps are arranged to position and engage overlapping siding plates, and the third and fourth steps are also arranged to engage overlapping siding steps at a greater spacing relative to one another.

USE/ADVANTAGE - Gauging spacing between lowermost ends of overlapped siding or shingle members. Durable and reliable construction.

39/3,AB,K/4 (Item 4 from file: 350)
 DIALOG(R) File 350:Derwent WPIX
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008211259

WPI Acc No: 1990-098260/199013

XRFX Acc No: N90-075904

Wall **siding** application **tool** - has series of attached
 regularly spaced **hangers**, positioned for correct distancing of
 bottom **edges** of **siding**

Patent Assignee: TAGGART A W (TAGG-I)

Inventor: TAGGART A W

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4899459	A	19900213	US 89294795	A	19890109	199013 B

Priority Applications (No Type Date): US 89294795 A 19890109; US 87102630 A
 19870930; US 88250862 A 19880929

Abstract (Basic): US 4899459 A

A thin, elongated flexible strap provides attachment to a wall
 prior to application of **siding** strips. Uniformly spaced apart
 L-shaped **hanger** each have a proximal portion separably attached
 to the strap and a distal portion positioned normal to the strap and
 protruding. Attachments removably fasten the **hanger** to the
 strap.

When the **tool** is mounted on a wall, the **hanger** serves
 to hold and position **siding** strips prior to their attachment to
 the wall and the **hanger** can be pulled free of the strap and
 withdrawn from beneath **siding** strips after the **siding**
 strips have been attached. The attachment is pref. a stable. The
 attachment can be a low strength adhesive.

USE - **Tool** or guage for mounting sliding strips on a wall or
 similar surface.

61/3,AB,K/5 (Item 5 from file: 350)
 DIALOG(R) File 350:Derwent WPIX
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007128555

WPI Acc No: 1987-128552/198718

XRPX Acc No: N87-096058

Siding installation tool - comprises angle iron with
 holding blocks located on both wings, and includes retainer assemblies

Patent Assignee: CZELUSNIAK D J (CZEL-I)

Inventor: COOKE R J; GROLEAU D K

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4658490	A	19870421	US 85767787	A	19850820	198718 B

Priority Applications (No Type Date): US 85767787 A 19850820

Abstract (Basic): US 4658490 A

The tool comprises a rigid elongate angle iron with wings (12,14) forming a right angle, holding blocks (20) fixed to both wings, and retainer assemblies having locking and contact parts, the former engageable with the blocks. The assemblies and blocks hold a siding corner post in the angle iron by legs and grooves on the contact parts dimensioned for engaging slots and edges in the post.

The post is pref. held against the inner concave side of the angle iron and the blocks are fixed to the outer convex side of the iron. The retainer assemblies are slidably engageable with the blocks, and the contact parts include a slippery surface to facilitate engagement of slots and edges.

ADVANTAGE - The tool allows a single worker to install a corner post on a building in a truly vertical position.

39/3,AB,K/5 (Item 5 from file: 350)
 DIALOG(R) File 350:Derwent WPIX
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003884274

WPI Acc No: 1984-029813/198405

XRPX Acc No: N84-022494

Construction work **siding** board **installation** tool -
 holds new board in overlapping relation to existing board ready for
 fixing

Patent Assignee: KELLY J B (KELL-I)

Inventor: KELLY J B

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4425714	A	19840117	US 82387240	A	19820610	198405 B

Priority Applications (No Type Date): US 82387240 A 19820610

Abstract (Basic): US 4425714 A

The **tool** consists of a body having a head portion at one end, a handle portion at an opposite end and a mid portion connecting between the head and handle portions. The head portion has a downwardly facing hook section for engaging the upper **edge** on a first **siding** board **installed** on the building. The mid portion is formed of two legs orthogonal to one another with a short leg connected to the head portion and a long leg connected to the handle portion. A gate is rotatably attached to the long leg of the mid portion and is movable between a **siding** engagement position and a non-engagement position.

When the gate is in its **siding** engagement position, the head portion, mid portion and gate coact together to form an upwardly facing channel for receiving the lower **edge** of a second **siding** board to be **installed** on the building in an overlapping relation to the first **siding** board. Thus, the **tool** serves as a cradle for assisting in holding the second **siding** board in a desired overlapping position with respect to the first **siding** board during **installation** of the second **siding** board on the building.

107/3,AB,K/1 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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003273498

WPI Acc No: 1982-C1482E/198208

Holder for wall lap siding - has hook to engage installed
siding board with notch to support second board on flat leg

Patent Assignee: CASTEEL E (CAST-I)

Inventor: SPECTOR G

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4314429	A	19820209				198208 B

Priority Applications (No Type Date): US 80123000 A 19800220

Abstract (Basic): US 4314429 A

The sliding holder comprises an inverted U-shaped hook and a hanger forming an upward notch. The hook rests on an upper edge of an already-installed lap siding board. The upward notch supports an uninstalled lap siding so that the hook and hanger are attached to a longitudinal flat leg extending downwardly of the hook and hanger forming a common wall between the hook and hanger. These are adjacent each other on opposite sides of the leg. The hanger and hook have spaced transverse surfaces to abut the lapped sidings.

Shims are inserted on the hanger surface with spaced guides to fit on the hanger to retain the shims.

1/9/5

DIALOG(R)File 350:Derwent WPIX

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003086351

WPI Acc No: 1981-J6395D/198137

L-shaped shingle locating gauge - includes parallel side supports
attached to alignment guide, load spreading bar and clamp

Patent Assignee: SCHMANSKI T G (SCHM-I)

Inventor: SCHMANSKI T G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4285134	A	19810825				198137 B

Priority Applications (No Type Date): US 80166759 A 19800707

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4285134	A		5		

Abstract (Basic): US 4285134 A

The shingle locating gauge is for use in aligning and applying roofing or siding shingles and has a pair of generally parallel side supports attached to an elongated alignment guide. A load spreading bar and an elongated support member extend generally parallel to the alignment guide and are each connected to the side supports.

Mounted on the support member are a pair of alignment stops and a clamp adapted to apply force against the load spreading bar. The alignment guide (24) is attached to the side supports (26,28) by welding. The guide, side supports, support member and load spreading bar (40) are made of aluminium.

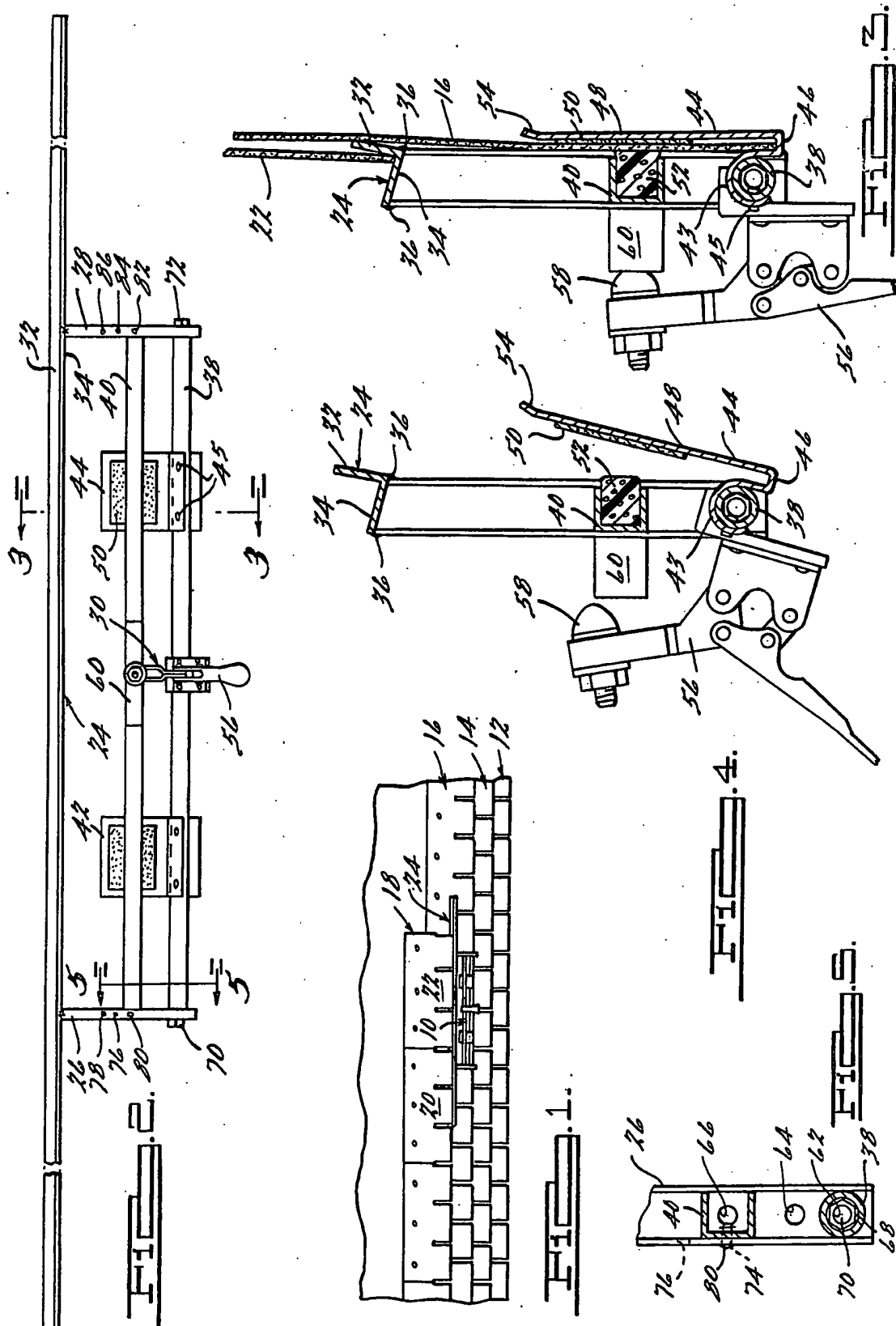
2

Title Terms: L-SHAPED; SHINGLE; LOCATE; GAUGE; PARALLEL; SIDE; SUPPORT;
ATTACH; ALIGN; GUIDE; LOAD; SPREAD; BAR; CLAMP

Derwent Class: S02

International Patent Class (Additional): G01B-003/30; G01B-005/16

File Segment: EPI



69/3,AB,K/8 (Item 8 from file: 350)
 DIALOG(R) File 350:Derwent WPIX
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002141122

WPI Acc No: 1979-G1057B/197928

Tool for applying building **siding** - comprises elongated arm
 movable between multiple positions relative to base member

Patent Assignee: MATTHEWS F E (MATT-I)

Inventor: MATTHEWS F E

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4159029	A	19790626				197928 B

Priority Applications (No Type Date): US 77833588 A 19770915

Abstract (Basic): US 4159029 A

The **tool** comprises an elongated base member including a first **end** portion for releasably **engaging** the upper **edge** of a **siding** board such that the base member depends from the upper **edge** and lies proximate to the exposed outer face of the board. The second **end** portion of the base member defines the lower extremity of the **tool** and pivotally receives an elongated arm which is movable between multiple positions relative to the base member.

In one position, the arm is parallel to the base member and defines with the base a channel within which the bottom **edge** of a **siding** board is received and held relative to the subjacent board to which the **siding tool** is **engaged**. After the fresh board has been secured to the framework, the arm is pivoted to an angular position that permits the **tool** to be rotated about the longitudinal axis of the base member to disengage the **tool** from the subjacent board.

4/3,AB,K/2 (Item 2 from file: 350)
 DIALOG(R) File 350:Derwent WPIX
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002139216

WPI Acc No: 1979-F9150B/197927

Wall panel installation jig - includes channel section with nails, and groove for frictional holding strip

Patent Assignee: BROWN S (BROW-I)

Inventor: BROWN S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4158455	A	19790619				197927 B

Priority Applications (No Type Date): US 78874389 A 19780202

Abstract (Basic): US 4158455 A

The device includes a channel section provided with captively held nail members for temporarily attaching the jig to a substructure, e.g. wall studs. The channel section further has a groove along an interior wall surface for receiving an interchangeable frictional holding strip.

The intersection of a second interior wall and bottom surface forms an inclined wedging surface. An edge of the sheet material is placed within the channel and is **grippingly** engaged by the coaction of the frictional holding strip and the wedging surface. The sheet material is angularly supported resting against the substructure and can then be nailed in place.

1/9/7

DIALOG(R)File 350:Derwent WPIX

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001311351

WPI Acc No: 1975-K5272W/197538

**Tool for positioning siding board on wall - has hooked, pivoted arm
depending from spiked support**

Patent Assignee: KRUEGER ENG (KRUE-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 3904184	A	19750909				197538 B

Priority Applications (No Type Date): US 74452758 A 19740320

Abstract (Basic): US 3904184 A

The tool for hanging horizontal siding boards on a wall includes a spike, which is driven through a tool head and pivotally depending arm, to secure the head to the wall. The board is the slid upwards between the wall and tool arm. When the board is properly located, an abbreviated hook on the arm engages the board bottom and holds the board in place. After the board is permanently secured in position, the tool is removed by rotating the arm perpendicularly outward away from the wall. The depending arm may be spring urged towards the wall to positively engage the board.

Title Terms: TOOL; POSITION; SIDING; BOARD; WALL; HOOK; PIVOT; ARM; DEPEND;
SPIKE; SUPPORT

Derwent Class: P56

International Patent Class (Additional): B23Q-003/02

File Segment: EngPI

69/3,AB,K/9 (Item 9 from file: 350)
 DIALOG(R) File 350:Derwent WPIX
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001311065

WPI Acc No: 1975-K4986W/197538

Appts. **hanging siding** members on supporting surfaces - has
 flexible hagnng clip **engageable** with **siding** member and
 furring member

Patent Assignee: MAK-RITE MFG INC (MAKR-N)

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 3903670	A	19750909				197538 B
CA 1019529	A	19771101				197745

Priority Applications (No Type Date): US 74466964 A 19740506; US 73389567 A
 19730820

Abstract (Basic): US 3903670 A

The apparatus for hanging a siding member on a supporting surface includes a furring member secured to the supporting surfaces and having a number of slots, and a flexible hanging clip which is insertable through a slot and **engageable** with the siding member and the furring member. The flexible hanging clips compensate for variations in location and orientation of the slot configuration. The furring strip is first secured to the supporting surface, such as a house, after which the flexible hanging clip **engages** the **siding** member at one **end**, while its opposite **end** is inserted into a slot in the furring member, and then bent so as to form a friction attachment between the siding member, the clip, and its associated furring strip.

23/9/9 (Item 9 from file: 350)
 DIALOG(R) File 350:Derwent WPIX
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001267530

WPI Acc No: 1975-F1426W/197520

Corner closure assembly to conceal ragged edges - has
 resilient clips spanning corner and retaining decorative closure

Patent Assignee: BENDIX CORP (BEND)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 966628	A	19750429				197520 B

Priority Applications (No Type Date): US 71144966 A 19710519

Abstract (Basic): CA 966628 A

The closure assembly is for concealing the ragged edges remaining when siding is applied to a structure. A number of resilient clips are spaced along the corner after the siding has been applied. The clips are configured to span the corner and to resiliently grasp a corner closure piece which the clips support.

The decorative corner closure is configured and dimensioned so that it is firmly retained by the clips and resiliently and snugly held against the siding. The ragged edges of the siding are thus concealed and a decorative appearance realized. However, whenever desired the corner closure can be easily removed or replaced without disturbing the siding or the supporting clips.